

AMENDMENTS TO THE CLAIMS

1. (Cancelled).

2. (Currently Amended) ~~The clipping circuit in accordance with claim 1~~ A clipping circuit for limiting amplitude of an orthogonal baseband signal to be supplied to a power amplifier in a radio transmitter, comprising:

polygonal clipping means including a plurality of stages in cascade connection, each of the stages comprising rectangular clipping means and phase rotating means connected in series, and

~~further comprising~~ amplitude adjusting means for compensating and adjusting a change in signal amplitude of the baseband signal from the rectangular clipping means and the phase rotating means.

3. (Currently Amended) ~~The clipping circuit in accordance with claim 1~~ A clipping circuit for limiting amplitude of an orthogonal baseband signal to be supplied to a power amplifier in a radio transmitter, comprising:

polygonal clipping means including a plurality of stages in cascade connection, each of the stages comprising rectangular clipping means and phase rotating means connected in series,
~~comprising n (an integer equal to or more than two) stages in cascade connection, each of the stages comprising the rectangular clipping means and the phase rotating means connected in series,~~

the rectangular clipping means in a first stage including a clip level beforehand set to a predetermined clip level,

each of the rectangular clipping means in a second and subsequent stages including a clip level set to a value obtained by multiplying the predetermined clip level by a quantity of

correction corresponding to variation in amplitude of the baseband signal associated with phase rotation in the phase rotating means in a previous stage of the rectangular clipping means.

4. (Cancelled).

5. (Currently Amended) ~~The clipping circuit in accordance with claim 4~~ A clipping circuit for limiting amplitude of an orthogonal baseband signal to be supplied to a power amplifier in a radio transmitter, comprising:

polygonal clipping means including a plurality of stages in cascade connection, each of the stages comprising rectangular clipping means and phase rotating means connected in series, and

control means for controlling, if the amplitude of the orthogonal baseband signal takes a value more than the predetermined clip level, the polygonal clipping means to process the orthogonal baseband signal,

wherein if the amplitude of the orthogonal baseband signal takes a value equal to or less than the predetermined clip level, the control means adjusts time for output of the orthogonal baseband signal corresponding to processing time of the polygonal clipping means.

6. (Cancelled).

7. (Currently Amended) ~~The clipping circuit in accordance with claim 2, comprising n (an integer equal to or more than two) stages in cascade connection, each of the stages comprising the rectangular clipping means and the phase rotating means connected in series,~~

the rectangular clipping means in a first stage including a clip level beforehand set to a predetermined clip level,

each of the rectangular clipping means in a second and subsequent stages including a clip level set to a value obtained by multiplying the predetermined clip level by a quantity of correction corresponding to variation in amplitude of the baseband signal associated with phase rotation in the phase rotating means in a previous stage of the rectangular clipping means.

8. (Previously Presented) The clipping circuit in accordance with claim 2, further comprising control means for controlling, if the amplitude of the orthogonal baseband signal takes a value more than the predetermined clip level, the polygonal clipping means to process the orthogonal baseband signal.

9. (Previously Presented) The clipping circuit in accordance with claim 3, further comprising control means for controlling, if the amplitude of the orthogonal baseband signal takes a value more than the predetermined clip level, the polygonal clipping means to process the orthogonal baseband signal.

10. (Previously Presented) A transmitter comprising a clipping circuit in accordance with claim 2.

11. (Previously Presented) A transmitter comprising a clipping circuit in accordance with claim 3.

Application No. 10/578,316
Amendment dated January 22, 2008
Reply to Office Action of October 31, 2007

Docket No.: M1909.1145.

12. (Cancelled).

13. (Previously Presented) A transmitter comprising a clipping circuit in accordance with claim 5.